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## NOTES ON SOME FRESH-WATER SHELLS FROM THE YUKON TERRITORY.

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Among the zoölogical collections in the Museum of the Geological Survey of Canada, there are a few fresh-water shells from the Yukon Territory, which have not yet been reported upon, though they are by no means devoid of interest to the student of the geographical distribution of the mollusca.

Most of these shells were collected by the late Dr. G. M. Dawson, in 1887, at four localities, viz., from Frances Lake, at the head of the Liard River; from Finlayson Lake, between Frances Lake and the Pally River; at the Lewes River; and from Lake Marsh or "Mud Lake," one of the tributaries of the Lewes River. The remainder were collected by Mr. Joseph Keele in 1904, from the Stewart River, near Mayo River.

The Cycladidæ in these collections have been kindly determined by Dr. V. Sterki, and most of the Gasteropoda by Dr. W. H. Dall. The species represented in them are apparently as follows:

### PELECYPODA.

#### *Sphærium Walkeri* Sterki.

Frances Lake, one valve; and Finlayson Lake, two perfect specimens. In 1904 Mr. W. McInnes collected a few living shells, which were referred to this species by Dr. Sterki, from the Atta-

wapiskat River, Keewatin. The type of *S. Walkeri* are from Lake Michigan.

*Pisidium Idahoense* Roper.

Stewart River, near Mayo River; one dead but perfect specimen and an odd valve. Dr. Sterki writes that the "anterior part of the hinge of the former is reversed."

*Pisidium compressum* Prime.

Stewart River, near Mayo River; one specimen. Mr. McInnes has recently collected specimens of this species at Ozhiski Lake, Attawapiskat River, at Kawinogans River (a branch of the Attawapiskat) and at the Winisk River, Keewatin.

*Pisidium variabile* Prime, var.

Stewart River, near Mayo River; two specimens. Mr. McInnes has recently collected three specimens on the Kawinogans River, which Dr. Sterki has identified with this species.

*Pisidium scutellatum* Sterki.

Frances Lake; fry only, one specimen. Dr. Sterki has recognized a few specimens of *P. scutellatum* in collections made by Mr. McInnes last year at Ozhiski Lake and the Kawinogans River, Keewatin.

GASTEROPODA.

*Valvata mergella* Westerlund.

Stewart River, near Mayo River, two specimens.

*Valvata Lewisii* Currier.

*Valvata sincera* of Haldeman, C. B. Adams, Dekay; W. G. Binney, and many subsequent American writers, but, according to Dall, not *V. sincera* of Say.

*Valvata striata* of Lewis, but not of Philippi.

Frances Lake, ten specimens, and Finlayson Lake, two specimens. Presumably similar specimens were previously recorded by W. G. Binney, in 1865, under the name *V. sincera*, as having been collected by Major Kennicott from the Peace River, Upper Mackenzie, and Great Slave Lake. Frances and Finlayson Lakes both belong to the Upper Mackenzie drainage system.

Elsewhere in Canada, *V. Lewisii*, as recently identified by Dall, is now known to occur at many localities from Gaspé to Alberta, and as far to the northeastward as Fort Chimo, Ungava.

A few specimens, in the museum of the Canadian Survey, which Dall thinks are "probably the true *V. sincera* of Say, or a variety of it," were collected on the island of Anticosti by Professor Macoun in 1884, and on the Attawapiskat and Kawinogans Rivers by Mr. McInnes in 1904. Those from the Kawinogans River have the outer half of the last volution free and partially uncoiled.

*Limnæa stagnalis appressa* Say.

Stewart River, near Mayo River; two specimens.

*Limnæa Randolphii* Baker.

Frances Lake, eleven fine and large specimens; Finlayson Lake, eleven specimens, mostly immature; Lewes River, one small specimen; and Lake Marsh, Lewis River, seventeen fine and mostly adult shells.

*Limnæa palustris* Muller.

Frances Lake, two specimens.

*Limnæa VahlII* Beck. (Dall.)

Frances Lake, nine specimens; Finlayson Lake, twelve specimens.

*Limnæa arctica* Lea. (Dall.)

= *Limnæa Pingeli* Beck, var.; (Dall.)

Stewart River, near Mayo River, two specimens.

*Planorbis trivolvis* Say.

Stewart River, near Mayo River; seven specimens of a rather large, depressed and thin-shelled form of this species, with the spiral angulation obsolete.

*Segmentina armigera* (Say).

Stewart River, near Mayo River; one specimen.

*Physa* sp. indet.

Finlayson Lake; one very immature specimen.

Ottawa, April 5, 1905.